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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/801,411	03/08/2001	Darrell Lee Ash	RFMI01-00213	2885

7590 08/14/2002

William J. Munck, Esq.
Novakov Davis & Munck, P.C.
900 Three Galleria Tower
13155 Noel Road
Dallas, TX 75240

EXAMINER

KINKEAD, ARNOLD M

ART UNIT

PAPER NUMBER

2817

DATE MAILED: 08/14/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/801,411	ASH, DARRELL LEE
Examiner	Art Unit	OK
Arnold M Kinkead	2817	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 29 May 2002.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-3,5-10 and 12-20 is/are rejected.

7) Claim(s) 4 and 5 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3
4) Interview Summary (PTO-413) Paper No(s). ____
5) Notice of Informal Patent Application (PTO-152)
6) Other: _____

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 6,7,13 and 14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 6 and 13, the load impedance is lower than the stray capacitance impedance...is this recitation correct?

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

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4. Claims 1,5,8,12,15,16,18,19 and 20 are rejected under 35 U.S.C. 102(e) as being anticipated by Northam(US 6,239,664).

The reference by Northam, figure 2, and col. 7, lines 34-42, discloses an oscillator circuit with a SAW resonator(figure 2, 202) with inductor element(230,235), and varactor(244). The amplifier(204) is also shown. Low phase noise is achieved by tuning out the stray capacitances. The method steps being inherent.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1-3, 5-10, and 12-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Driscoll(US pat. 5,608,360) of record and further in view of Northam.

The reference by Driscoll discloses an oscillator circuit that makes use of a SAW resonator(see figure 1, and col. 3, lines 5-20) which provides the suggestion that it is known in the art that SAWR's have a certain amount of parasitic capacitance that may be tuned out. The two port resonator(input and output ports) is shown coupled with inductors (12,13). A load is connected to the output.

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The reference does not explicitly describe the inductors as tuning out the parasitic capacitance nor does it show a tunable SAW resonator with varactor. The method steps being inherent.

With regard to the latter idea it is notoriously well known in the art that a resonator maybe made adjustable by adding a varactor that allows for tuning adjustments, see the reference by Northam, figure 2, and col. 7, lines 34-42. The reference by Northam discloses an oscillator circuit with a SAW resonator(figure 2, 202) with inductor element(230,235), and varactor(244). The amplifier(204) is also shown. Low phase noise is achieved by tuning out the stray capacitances. Also, the use of the inductor elements would have been recognized by one of ordinary skill in the art to have a role in tuning out the parasitics. The inductors coupled to ground.

In light of the above it would have been obvious for one of ordinary skill in the art to have modified the SAW resonator as shown in Driscoll to include a varactor control, as shown by Northam, to allow for the tuning of the resonator as desired. Also, the inductors allowing for compensation against the inherent parasitic capacitances.

Response to Arguments

7. Applicant's arguments with respect to the claims pending have been considered but are moot in view of the new ground(s) of rejection.

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Allowable Subject Matter

8. Claims 4 and 11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnold Kinkead whose telephone number is (703) 305-3486. The examiner can normally be reached on Mon to Fri from 8:30 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal, can be reached on (703) 308-4909. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7724.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Arnold Kinkead

Aug. 7, 2002



ARNOLD KINKEAD
PRIMARY EXAMINER